

What is Metamorphosis

Metamorphosis (or Morphing) is a transformation that given a source and target shapes, gradually and continuously, deforming the source shape into the target shape, while producing the in-between shapes.











Naturalness

- A good morph should be perceptually "natural"
 - Corresponding features of the source and target objects should be morphed one into another (e.g. nose to nose, ear to ear, etc.)









A better solution

- Establish correspondence between image features
- Warp between corresponding features



A combination

- A morph is usually a combination of two processes
 - Warping defining the geometric transformation that distorts the source and the target objects
 - Blending merging the two warped objects into one by interpolating the values (e.g. colors) of corresponding elements of the two models.

















































W(x) = E(R(x)+c)















Surface reconstruction results The original The model voxelized

iron (2600 triangles)

in a resolution of 100³ (42482 triangles)

















